

Concerning the Width of Spectral Lines, by A. J.
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No 47
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pp 791-808.

24, 703 Air Res and Dev Command

TT 26 TT - 360

Scientific - Physics

Translation on tape Jun 55 CTS

The Cosine law in the Kinetic Theory of Gases,
by M. Knudsen,
GERMAN, per, Ann. Phys., Vol XLVIII, 1915,
pp 1113-1121. *P 910168367*
NASA TT F-486

REC/ORNAL-TR-1852

Sci-Phys
Jul 67

332,859

On the Foundations of Crystal Optics. Part 1 -
Dispersion Theory, by $P. P. Ewald$.

GERMAN, per, Annalen der Physik, Vol 49, No 1,
1916.

AIR/AFGRL/70-0580

Tr No 84, 26 Aug 1970

Sci/Phys
Feb 71

On the Foundations of Crystal Optics. Part II -
Theory of Reflection and Refraction, by E. E. Ewald.
GERMAN, per, Annalen der Physik, Vol 49, No 2,
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AIR/AFGRL/70-0580

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Sci/Phys

Feb 71

Towards the Establishment of a Science of Crystal
Optics. Part I. Theory of Dispersion. Part II.
Theory of Reflection and Refraction, by P. P.
Ewald, 89 pp.

Sci. 14
GERMAN, per, Ann Physik, ~~VOL~~ IV, No 49, 1916,
pp 1-38, 117-143.

SLA Tr 2453

Sci - Physics

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Aug 57

Vegard, L.
ELECTRICAL ABSORPTION IN DISCHARGE TUBES.
[3 July 62] 30p. 28 refs.
Order from SLA S2, 60

63-10088

Trans. of Annalen der Physik (Germany) 1916 [ser. 4]
v. 50, p. 769-795.

DESCRIPTORS: *Discharge tubes, Gas discharges,
Electric discharges, *Absorption, Magnetic fields,
Experimental data, Hydrogen, Oxygen, Helium. Ions.

(Physics, TT, v. 9, no. 12)

63-10088

L. Vegard, L.

Office of Technical Services

Björnstahl, Y.
RESEARCHES ON ANISTROPIC LIQUIDS. [1962] 60p.
51 refs.
Order from SLA \$5.60

63-10163

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v. 56, no. 11, p. 161-207.

DESCRIPTORS: *Liquids, *Anisotropy, *Optical
properties, Electric fields, Electrical effects,
Electrophoresis, Temperature, Refraction, Light.

Contents:

- I. Light extinction in anisotropic liquids
- II. On the influence of an electric field.

(Physics--Optics, TT, v. 9, no. 12)

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I. Björnstahl, Y.

Office of Technical Services

The Vertical Distribution of Condensation
Nuclei in the Free Atmosphere, by Albert
Wigand, 58 pp.

GERMAN, per, Annalen der Physik, Vol. LIX, No 16,
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Dev Command

Scientific - Physics

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R-472-N

Über die Verbreiterung von Spektrallinien,
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GERMAN, ger, Annalen der Physik, Vol LVIII,
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*JPRS for AEC

Sci - Phys
16 Feb 61

Sentfleben, Hermann and Benedict, Elisabeth.
DIFFRACTION OF LIGHT BY CARBON PARTICLES
OF LUMINOUS FLAMES. [1963] [34]p. 37 refs.
Order from SLA \$3.60 63-14686

Trans. of Annalen der Physik (Germany) 1919, ser. 4,
v. 60, no. 20, p. 297-323.

DESCRIPTORS: *Diffraction, *Light, *Carbon, Parti-
cles, Flames, *Optical properties, Brightness, Polari-
zation, Absorption, Optics

(Physics--Optics, TT, v. 10, no. 4)

63-14686

I. Sentfleben, H.
II. Benedict, E.

Office of Technical Services

The Mechanical and Acoustical Construction and
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H. Hecht, 27 pp.

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SIA 58-130

Sci

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The Perpendicular Transmission of Electromagnetic
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pp 734-762.

NASA TT F-8043

SLA 63-20849

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Sci
Sep 61

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Experimental and Theoretical Investigations of
Halo's in Homogeneous Fog Part I, by Reinhard Mecke
34 pp.

GERMAN, par, Annalen der Physik Vol LXX, 1955,
pp 471-500. 000409

Amer Meteorol Soc. T-G-177

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Mar 63

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The Hydrodynamics of Edge Tones, by E. Schmidtke, 16 pp.
GOVERNMENT USE ONLY

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1919, pp 715-733.

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June 72

R-4543-D

Some Optical Properties of Excited Media,
by Charles Checheveau, Rene Audubert.
FRENCH, per, Annales de Physique, Vol XIII, N 1920,
pp 134-161.

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Experimental and Theoretical Investigation of Aurora
Phenomena in Homogeneous Fog. Part II. Theoretical
Investigations, by Reinhard Mecke, 30 p

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*Amer Meteor Soc 7-5-128

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A Theory of the Receiver, by W. Hahnemann, H. Hecht.
30 pp.

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57-84.

SLA 58-145

Sci
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The Self-Diffusion Rate of Molten Lead, by
J. Groth.

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•NBS TT 70-57385

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GERMAN, per, Annalen der Physik, Vol LXIII, 1920,
pp 674-680.

Sci - Phys

Mar 64

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NTC 70-25556

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Calculation of π Optical and Electromagnetic Lattice
Potentials, by P. P. Ewald, 44 pp.
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AEC-AI-Tr-43

Sci-Phys
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On the Eddy Currents Involved in the Spontaneous
Change of Magnetization, by B. Vvedenskiy, 10 11

GERMAN, per, Annalen der Physik, Vol LXIV, 1921,
pp 609-620. 9077343

AEC Tr-4556

NTC 78-25308

Sci - Phys
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Self-Diffusion in Solid Lead, by J. Groth.
GERMAN, ber. Ann. Physik, 65, 1921, pp 216-222.
*NBS TT 70-57381

Sci-Mat
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A Method for Measuring the Dispersion of Artificial
Birefringence, by Otto Reeb. GOVERNMENT USE ONLY
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Sources, by R. Tomaschek,

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pp 105-126.

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1924, pp 339-364,
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NTC 70-24197

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Aug 67

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Stability and Turbulence of Liquid Flows, by
Werner Heisenberg, 57 pp.

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No 15, 1924, pp 577-627. 9669962

FTD-TT-62-1596

NTC 70-24118

Sci-Phys

Sep 63

343,300

MIPR AS-101 66-15(e)

R-6256-D

18 Nov 65

Die Rotation des elektrischen Lichtbogens bei
Atmosphärendruck; vo

By: Halge Stolt

From: ANNALEN DER PHYSIK V. 74 #1(1924):80-103 (24 pp)

(German - est for ads:

Type 1 original and 1 carbon copy. Do not include any
charts, graphs, or drawings. Put captions at the end.
Do include formulas and tables.

Remarks on Mr. Arthur V. Hippel's Article. The
Theory of the Thermomicrophone (1), by J. Friess and
E. H. Haetsmann, 4 pp.

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SLA 57-3023

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Diffused Radiation of Dielectric Spheres for the
Border Case that Sphere Material and Ambient
Medium Possess Almost Equal Diffraction Indices,
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July 69

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Experimental Studies of the Explosive Wave and
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Jun 59

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ing Gas Mixtures, by P. Laffitte.

FRENCH, per, Annales de Physique, Vol IV, Ser
10, Nov-Dec 1925, pp 587-694.

Dept of Int
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Sci - Chem, Phys
Jun 59

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Path Computation of Cathode Rays in the
Axisymmetrical, Electromagnetic Fields, by
H. Busch,
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Army Nat Cncl
SI-6-76-141

Sci-Phys
Mar 67

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Ghosts Produced by Non-Periodic Defects in Gratings,
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NLL Ref: 5828.4F (12902)

Sci/Mays
Apr 69

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On Wave Propagation in Wireless Telegraphy
A. Goldensfeld, 22 pp.

GOFFMAN, H., Annalen der Physik, Vol. 17, 1926, pp. 1155-1156.

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AEC-UCRL-11-150(1)

Ref. - Director

Aug 63

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On the Quantum Theory of Molecules, by Max
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GERMAN, per, Annalen der Physik, No 84,
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Investigations of Phenomena Associated With Electrodeless Ring Discharge in Hydrogen, by Gerhard Herzberg, 17 pp.

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Sci - Phys

Jul 61

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NASA TT P-8188

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15 Jun 62

US GOV'T USE ONLY

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Investigations Into Electrodeless Ring Current, by
G. Mierdel, 16 pp.

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pp 612-640. *CTA 9012966*

ACSIL Tr: 890

Sci - Chemistry
Oct 57

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Lattice Structure Transformations in Metallic
Solid Solutions, by G. Borelius, C. Johansson,
J. Linde, 35 pp.

GERMAN, per, Ann Physik, Vol LXXXVI, No 10,
15 Jun 1928, pp 291-318.

SLA Tr 57-346

Sci - Physics
Jul 57

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- Experimental Studies on the Theory of
W. Ritz on Transverse Vibration of
Square Plates, by A. Lemke.
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1928, pp 717-750.
NASA ET F-11,576

Sci/Phys
Oct 68

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Becker, A.
ON THE PASSAGE OF SLOW CATHODE RAYS
THROUGH METAL 5, II. [1963] [13p] 4refs
Order from SLA \$1.60 63-20354

Trans. of Annalen der Physik (Germany) 1929, ser. 5,
v. 2, no. 3, p. 249-263.

DESCRIPTORS: *Thin films, *Metal films, *Nickel,
Permeability, *Electron beams, Velocity.

(Physics--Electronics, TT, v. 10, no. 11)

63-20354

I. Becker, A.

Office of Technical Services

Uncl # RC (LA-tr-71-17) THEORY OF THE RECRYSTAL-
LIZATION OF PURE METALS. Dehlinger, Ulrich. Trans-
lated for Los Alamos Scientific Lab., N. Mex., from Ann.
Phys.; 2: 749-93(1929). 52p.

metallurgy; physics (solid-state); translations

MN-25 P RC

Unlimited

Theory of Ionization in Columns, (Part) II., by
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GERMAN, per, Annalen der Physik, Vol I., 1929,
pp 977-1003.

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Sci - Phys

Oct 59

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The Superposition Law of a Finitely Deformed
Elastic Continuum Subject to Relaxation and
Its Significance for the Exact Derivation
of the Equations for Viscous Liquids in the
Euler Form, by H. Bensky, 11 pp.

GERMAN, per, Ann Physik, 1929, Vol II, No 6,
pp 617-630.

AMS-551290

Sci - Phys
OTS I, 12
Jul 59

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Term Splitting in Crystals, by H. Bethe, 77 pp.

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Scientific - Physics

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(FID 20135)

Kinetic Theory of Heat Conduction in Crystals, by
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Full translation.

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prob Berlin, 1929, pp 1055-1101.

CIA/FID/U-5750

EEur - Germany

Sci - Physics, solid-state physics heat conduction

A 6015.1

Apr 54 CTS

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Study of the Influence of the Curvature of Solids
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Take Part, by L. R. Luce, 60 pp.

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SIA Tr 2350

Sci - Physics
Sep 57

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On the Charging of Small π Suspended Particles in a
Corona Discharge, ~~16 pp.~~ by H. Schweitzer, 16 pp.

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SIA Tr 1567

Sci - Nuclear physics
Apr 1957

Q 1457
46, 154

On the Ionization of Alkali Atoms by Slow Electrons,
by Hans Funk, 43 pp.

GERMAN, per, Ann Physik, Vol. IV, 1930,
pp 149-184.

AEC UCRL-Trans-634(L)

Sci + Phys
Jun 61

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Electric Conductivity of Metallic Layers Formed
by Cathodic Sputtering, by E. Perucca, 14 p.

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No 2, pp 252-272.

SLA 59-20832

Sci
Mar 60
Vol 3, No 1

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The Soundfield of the Circular Piston Membrans, by
H. Backhaus, 26 pp.

GERMAN, per, Ann. der Physik, Vol. V, Series 5, No 1,
1930, pp 1-35.

34, 380

S.L.A. No 152/1956

Scientific - Physics

Investigation Into the Physical Processes of the
So-called Electrical Gas Purification Process. Part I.
On the Maximum Charge of Suspended Particles, by
R. Ladsburg, 31 pp.

FRENCH, per, Ann. Phys., MM Vol V, No 4, 1930,
pp 863-897.

S.L.A. Tr 1933

Sci - Engineering
Apr 57

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Acoustic Radiation by Membranes, by H. Stenzel.
GERMAN, per, Annalen der Physik, Vol 7, No 5,
1930, pp 947-982.
Dept of Navy NRL 1095

Sci/Physics
Jun 67

327,592

Crystal Structure, Electrical Resistance, Thermo-
electric Power, Heat Conductivity, Magnetic
Susceptibility, Hardness and "Tempering"
Phenomena of the AuPt System in Connection with
the Phase Diagram, 15 p., by C. H. Johansson,
J. O. Linde

GERMAN, par, Annalen der Physik, 1930, [5 ser.]
Vol V, No 6, pp 762-792.

SLA 59-20252

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Sci Mar 60 Vol 2, No 11

On the Adsorption Time and Its Measurement
by Flow Experiments, by P. Clausius, 68 pp.

GERMANY, Ann Physik, Vol V, No 7, 1930,
pp 489-520.

AEC Tr 36

Sci - Phys

Oct 59

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The Adsorption Time and Its Measurement by Flow
Experiments (Conclusion), by F. Clausen, 55 pp.

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pg 521-568. 9079912

AEC NF-92-698

Sci.
Aug. 1930

169, 886

The Quantized Loss of Velocity by Slow Electrons in
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GERMAN, per, Annalen der Physik, Series 5, Vol VI,
No 1, 1930, pp 50-36. 9695777
Amer Meteorol Soc
T-G-203

Sci - NS
Mar 65

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Experiments (Conclusion, by P. Clausen, 71 pp.

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AEC NP-Tr-693

Sci
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List 59

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Temperature Measurement With the Platinum Resistance
Thermometer Up to 1100 C, by H. Moser, 26 pp.

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SLA 57-2356

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*NASA TT F-12,810

Sci-Phys
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Spectroscopic Investigations on Nitric Oxide and
Nitrogen Peroxide, by ~~Joseph H. Kestel~~
~~Joseph H. Kestel~~ Maurice Lambrey, 90 pp.
UNCLASSIFIED

FRENCH, per, Annales de Physique, Ser 10, No 14,
pp 95-184, 1930

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Scientific - Physics

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Acoustic Radiation by Membranes, by H. Stenzel,
GERMAN, per, Annalen der Physik, Vol VII, 1930,
pp 947-982. P500182967
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Sci-Nucl Sci
Jul 67

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Annalen der Physik

1931, S5, Vol 8, pp 475-499 ntc 70-25206

The Effect of Secondary Emission ^{on} Tube
Characteristics, by H. Bittmann, 45 pp.

GERMAN, per, Ann Physik, Vol VIII, No 6, 23 Mar
1931, pp 737-776.

S.L.A. Tr 57-305

Sci - Electricity
May 57

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Göppert-Mayer, Maria.
ELEMENTARY ACTIONS WITH TWO QUANTUM
LEAPS. Thesis Göttingen U. (Germany). [1963] 15p
(formulae figs omitted)
Order from SLA \$1.60

63-20480

Trans. of Ann[alen der] Physik (Germany) 1931,
ser. 5, v. 9, p. 273-294.

DESCRIPTORS: *Quantum mechanics, Atoms,
Excitation, Atomic energy levels, Light, Electrons,
Raman spectroscopy.

(Physics--Theoretical, TT, v. 10, no. 12)

63-20480

I. Göppert-Mayer, M.
II. Göttingen U. (West Germany)

Office of Technical Services

On the Conduction of Electricity and the Resistance of
Thin Metallic Layers. III. Functional Relations between
Specific Resistance and Thickness of Layer (Referring
Metal Sulphides or Low Temperature), by G. L. ...
50 pp.

GERMAN, per: Ann Physik, Vol. 2, Aug 1921, pp 789-800 .

SLA 50001 1546

Sci
Jul 50

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On the Electrical Conductivity and Structure of
Thin Metallic Layers. III. ~~Specific Resistance and Structure~~
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Hamburger, 30 pp.

GERMAN, per, Ann Physik, Vol X, No 5, 1931, pp
905-926.

SIA 58-358

Sci
Jul 59

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Propagation of Light in Inhomogeneous Media,
by K. W. Forsterling, 49 pp, UNCLASSIFIED

GERMAN, per, Annalen der Physik
No 1, 1931, pp 1-39. CIA D 146570

Air Res. and Dev Command

T-71 Q U T

Scientific - Physics

Jan 55 CTS

21,343

On Elementary Acts with Two Quantum Jumps, by
Maria Goppert-Mayer.

GERMAN, per, Annalen der Physik, Vol 4, No 3,
1931, pp 273-294.

Dept of Navy/ APL/JHU TG 230-T523

Sci-Physics

Nov 67

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Electron Diffraction and Bremsung, by A. Sommerfeld,
80 pp.
GERMAN, per, Annalen der Physik, 5 Series, Vol XI,
No 3, 1931, pp 257-330. 9696517
Amer Meteorol Soc
T-G-217

NASA TT F-8411
GUO

Sci - Physics
Apr 65

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Electric Properties of Dilute Alloys of Mixed Crystals.
Part I, Gold Alloys, by J. O.K. Linde, 18 pp.
GERMAN, per, Annalen der Physik, Vol X, No 5, 1931,
pp 52-70.
Navy 4032/NRL 1004

Sci-Phys
Feb 65

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Passage of Electricity Through Fine Metallic Wires,
by Werner Weiden, 29 pp.

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GERMAN, per, Annalen der Physik, Vol XI, 5th Series,
1931, pp 579-605. CIA 600898

Air Res & Devel Cmd
Amer Meteorol Soc
for Geophys, Res Dir
ASTIA

Sci - Electricity

Jul 57

49,877

The Determination of the Elastic Modulus of
Bars with the Aid of Bending Oscillations,
by E. Goens.

GERMAN, per, Annalen der Physik, Vol 11, No 6,
1931, pp 649-678.

NLL Ref: 9091.9F (CA trans 207)

Sci-Phys
Oct 69

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1932, S5, Vol 12, No 5, pp 529-561 ntc 70-25205

(FDD 27141)

Concerning the Ξ Flow of Greatly Rarefied Gases Ξ
Through Tubes of Arbitrary Length, by P. Clausius,
39 pp.

GERMAN, per, Annalen der Physik, Vol XII, No 5, 1932,
pp 961-989.

34,808

CIA/FDD U-8127

Sci - Physics, Aerodynamics

Apr 56

LA 6-1-20121

Researches on Ultra-short Wave Tubes, by H. Collen-
busch, 29 pp.

GERMAN, per, Ann Physik, Vol XIII, No 2, 8 Apr 1932,
pp 191-211.

JLA 57-2136

Sci
May 58

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The Continuous and Continuously-Discrete X-Ray
Spectrum (According to Kramers' Theory and According
to Wave Mechanics), by A. W. Maue, 35 pp.

GERMAN, per, Ann Physik, Vol XIII, No 5, 1932,
pp 161-190.

AEC Tr 3245

Sci - Physics
Jun 58

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Fredlund, Ernst.
THE MEASURING RANGE OF KNUDSEN'S MANOMETER. [1963] [14]p. 13 refs.
Order from SLA \$1.60

63-14688

Trans. of Annalen der Physik (Germany) 1932, ser. 5, v. 13, no. 7, p. 802-810.

DESCRIPTORS: *Vacuum apparatus, *Pressure gages, *Manometers, Gases, Pressure, Measurement.

Measurements with a Knudsen manometer of a new type have shown that it is possible to obtain a linear relation between the manometer deflection and the gas pressure, until the mean free path is only approximately 10-12 times greater than the plate distance. Depending on the type of gas, the manometer shows a deviation which is incompatible with the simple theory, although this deviation can be easily explained by means of the theory of the accommodation coefficient. (Author)

63-14688

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manometers
1. Fredlund, E.

(Engineering, TT, v. 10,
no. 5)

Office of Technical Services

Measureings by the Aid of Liquid Helium, Investi-
gatoins of the Alloying Series Pb-Tl and Pb-Bi
with Reference to Super-Conductivity, by W. Meis-
sner and H. Franz, et al, 22 p.

GERMAN, per, Annalen der Physik, Vol XIII No 5 s,
1932, pp 967-984.

SLA TT 66-10713

Sci-Phys
Jul 66

304,497

The Use of Acoustic Filters for Noise Reduction, by
K. Schuster, M. Kipnis, 4 pp.

Full translation.

GERMAN, no per, Annalen der Physik, Vol XIV,
1932, pp 123-127.

X CIS/FDD Z-39

Scientific - Physics, Acoustics

Electrical Properties of Dilute Alloys of Mixed Crystals.
Part II. Resistance of Silver Alloys, by J. O. Linde, 14 pp.
GERMAN, per, Annalen der Physik, Vol XIV, No 4,
1932, pp 353-366.
Navy 4033/NRL 1005

Sci-Phys
Feb 65

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Angular Distribution in the Dispersion of Slow
Electrons in Gas Molecules, by Ven C. Ramsauer,
R. Kollath, 22 pp.

GERMAN, per, Annalen Der Physik, No 5, 1932,
pp 529-561.

ACSI E-8983
ID 2163980

Sci - Physics

Jun 61

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Line Emission and Absorption of Chromium Phosphors,
Part I, by Otto Deutschbein, 24 pp.

GERMAN, per, Annalen der Physik, Vol XIV, No 5,
1932, pp 712-725. 9635237

Hummer Coli Res Lang Ctr
H-T-G-63-17

Sci - Phys
Aug 63

343,454

Line Emission and Absorption of Chromium Phosphore
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